IN THE CLAIMS

Please amend claims 29 and 35 as follows:

1   1.(Previously Presented) Processing apparatus adapted to

2   implement an artificial intelligence application, which application

3   requires use of training sets having positive and negative

4   examples, the apparatus comprising:

5   • at least one memory adapted to store data and/or instructions;

6   • at least one processor adapted to execute operations, using the

7   at least one memory, the operations comprising:

8   • recognizing and maintaining a set of positive examples for

9   training; and

10   • upon completion of recognition of the set of positive

11   examples, selecting a set of negative examples for training

12   responsive to the set of positive examples.

1   2.(Original) The apparatus of claim 1, wherein the set of

2   negative examples has a same number of members as the set of

3   positive examples.

1   3.(Original)   The apparatus of claim 1, wherein the artificial

2   intelligence application is a content recommender.

1   4.(Original)   The apparatus of claim 3, wherein the content is

2   television shows.

1   5.(Original)   The apparatus of claim 1, wherein

2   • the positive and negative examples are describable in accordance

3   with at least one feature, the feature having a plurality of

4   possible values within a feature space;

5   • the set of positive examples includes at least one subset, each

6   subset including a respective plurality of members sharing a

7   same respective value of a given feature in the feature space,

8   the given feature being one that has been determined in advance

9   to be a dominant feature in the feature space; and

10   the set of negative examples includes at least one respective

11   subset corresponding to the at least one subset of the set of

12   positive examples, the members of each respective subset of

13   negative examples being selected to share the same respective value

14   of the given feature with the members of the subset of the set of

15 positive examples that corresponds with the respective subset of

16 negative examples.

1 6.(Original) The apparatus of claim 5, wherein the set of

2 negative examples includes at least one respective second subset of

3 negative examples, the members of the respective second subset of

4 negative examples being selected to have a value of the given

5 feature that lies within a predetermined range of the same value,

6 but excluding the same respective value.

1 7.(Original) The apparatus of claim 6, wherein no negative

2 example appears twice in the set of negative examples.

1 8.(Original) The apparatus of claim 5, wherein the given

2 feature is time of day.

1 9.(Original) The apparatus of claim 1, wherein the operations

2 include

3 • training the artificial intelligence application responsive to

4 the positive and negative examples; and

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5   • executing the artificial intelligence application to yield a

6   processing result in a useful application.

1   10.(Previously Presented) Apparatus adapted to implement an

2   artificial intelligence application, which application requires use

3   of training sets having positive and negative examples, the

4   positive and negative examples being describable in accordance

5   with at least one feature, the feature having a plurality of

6   possible values within a feature space, the apparatus comprising:

7   • at least one memory adapted to store data and/or instructions;

8   • at least one processor adapted to execute operations, using the

9   at least one memory, the operations comprising:

10   • recognizing and maintaining a set of positive examples for

11   training, the set of positive examples including at least one

12   subset, each subset including a respective plurality of

13   members sharing a same respective value of a given feature in

14   the feature space, the given feature being one that has been

15   determined in advance to be a dominant feature in the feature

16   space; and

17   • selecting a set of negative examples for training, the set of

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18   negative examples including at least one respective subset

19   corresponding to the at least one subset of the set of

20   positive examples, the members of each respective subset of

21   negative examples being selected to share the same respective

22   value of the given feature with the members of the subset of

23   the set of positive examples that corresponds with the

24   respective subset of negative examples.

1   11.(Original)   The apparatus of claim 10, wherein the

2   artificial intelligence application is a content recommender.

1   12.(Original)   The apparatus of claim 11, wherein the content

2   is television shows.

1   13.(Original)   The apparatus of claim 10, wherein the set of

2   negative examples includes at least one respective second subset of

3   negative examples, the members of the respective second subset of

4   negative examples being selected to have a value of the given

5   feature that lies within a predetermined range of the same

6   respective value, but excluding the same respective value.

1   14.(Original)   The apparatus of claim 10, wherein no negative

2   example appears twice in the set of negative examples.

1   15.(Original)   The apparatus of claim 13, wherein the given

2   feature is time of day.

1   16.(Previously Presented)   Apparatus adapted to implement an

2   artificial intelligence application, which application requires use

3   of training sets having positive and negative examples, the

4   positive and negative examples being describable in accordance

5   with at least one feature, the feature having a plurality of

6   possible values within a feature space, the apparatus comprising:

7   • at least one memory adapted to store data and/or instructions;

8   • at least one processor adapted to execute operations, using the

9   at least one memory, the operations comprising:

10   • recognizing and maintaining a set of positive examples for

11   training, the set of positive examples including at least one

12   subset, each subset including a plurality of members sharing a

13   same respective value of a given feature in the feature space,

14   the given feature being one that has been determined in

15   advance to be a dominant feature in the feature space; and

16   • selecting a set of negative examples for training, the set of

17   negative examples includes at least one respective subset of

18   negative examples, the members of the respective subset of

19   negative examples being selected to have a value of the given

20   feature that lies within a predetermined range of the same

21   respective value, but not including the same respective value.

1   17.(Original) The apparatus of claim 16, wherein the

2   artificial intelligence application is a content recommender.

1   18.(Original) The apparatus of claim 17, wherein the content

2   is television shows.

1   19.(Original)   The apparatus of claim 16, wherein no negative

2   example appears twice in the set of negative examples.

1   20.(Original)   The apparatus of claim 16, wherein the given

2   feature is time of day.

1   21.(Previously Presented) Processing apparatus adapted to

2   implement an artificial intelligence application, which application

3   requires use of training sets having positive and negative

4   examples, the apparatus comprising:

5   • at least one memory adapted to store data and/or instructions;

6   • at least one processor adapted to execute operations, using the

7   at least one memory, the operations comprising:

8   • recognizing and maintaining a set of positive examples for

9   training; and

10   • selecting a set of negative examples for training, responsive

11   to the positive examples, wherein no member of the set of

12   negative examples appears twice.

1   22.(Original) The apparatus of claim 21, wherein the

2   artificial intelligence application is a content recommender.

1   23.(Original) The apparatus of claim 22, wherein the content

2   recommender recommends television shows.

1   24.(Previously Presented) Apparatus adapted to implement an

2   artificial intelligence application, which application requires use

3   of training sets having positive and negative examples, the

4   positive and negative examples being describable in accordance with

5   at least one feature, the feature having a plurality of possible

6   values within a feature space, the apparatus comprising:

7   • at least one memory adapted to store data and/or instructions;

8   • at least one processor adapted to execute operations, using the

9   at least one memory, the operations comprising:

10   • recognizing and maintaining a set of positive examples for

11   training, the set of positive examples including at least one

12   subset, each subset including a plurality of members sharing a

13   same respective value of a given feature in the feature space,

14   the given feature being one that has been determined in

15   advance to be a dominant feature in the feature space; and

16   • selecting a set of negative examples for training, the set of

17   negative examples including at least one respective subset of

18   negative examples, the members of the respective subset of

19   negative examples being selected to have a value of the given

20   feature that is approximately adjacent to same respective

21   value.

1   25.(Previously Presented) The apparatus of claim 24, wherein

2 the given feature is time of day, and adjacent means either within

3 an hour before or within an hour after.

1   26.(Previously Presented) The apparatus of claim 24, wherein

2 each respective subset of negative examples corresponds with a

3 respective one of the at least one subset of positive examples, so

4 that its respective value of the given feature is adjacent to the

5 same respective value of the corresponding subset.

1   27.(Previously Presented) A method for selecting negative

2   examples for use in an artificial intelligence application, the

3   method comprising executing operations on at least one data

4   processing device, the operations comprising:

5   o selecting a set of positive examples that satisfy at least one

6   desired external criterion;

7   o upon completion of the selecting of the positive examples and

8   responsive thereto, selecting a set of negative examples.

1   28.(Previously Presented) A method of training an artificial

2   intelligence application, the method comprising executing

3   operations in at least one data processing device, the

4   operations comprising:

5   o   selecting negative examples in accordance with the method of

6   claim 27; and

7   o   training the artificial intelligence application using the

8   negative examples.

1   29.(Currently Amended) The method of claim 27, wherein:

2   o the operations further comprise, upon completion of selecting

3   the positive examples, determining a particular value of a

4   given feature in feature space, which particular value ~~appears~~

5   ~~to~~ characterizes a significant subset of the positive

6   examples; and

7   o the selecting of the set of negative examples is such that a

8   significant subset of the negative examples has a selected

9   value responsive to the particular value of the given feature

10   in feature space.

1   30.(Previously Presented)   The method of claim 29, wherein the

2   selected value is the same as the particular value.

1   31.(Previously Presented)   The method of claim 29, wherein the

2   selected value lies in a selected range around the particular value

3   in feature space, but is not the same as the particular value.

1   32.(Previously Presented)   A method of training an artificial

2   intelligence application, the method comprising executing

3   operations in at least one data processing device, the operations

4   comprising:

5   o   selecting negative examples in accordance with the method of

6   claim 29; and

7   o   training the artificial intelligence application using the

8   negative examples.

1   33.(Previously Presented)   The method of claim 29, wherein the

2   artificial intelligence application recommends content.

1   34.(Previously Presented)   A medium readable by at least one

2   data processing device and embodying code for causing the data

3   processing device to execute operations, the operations comprising:

4   o selecting a set of positive examples that satisfy at least one

5   desired external criterion; and

6   o upon completion of the selecting of the positive examples and

7   responsive thereto, selecting a set of negative examples.

1   35.(Currently Amended)   The medium of claim 34, wherein:

2   o the operations further comprise, upon completion of selecting

3   the positive examples, determining a particular value of a

4   given feature in feature space, which particular value ~~appears~~

5   ~~to~~ characterize<u>s</u> a significant subset of the positive

6   examples; and

7   o the selecting of the set of negative examples is such that a

8   significant subset of the negative examples has a selected

9   value responsive to the particular value of the given feature

10   in feature space.

1   36. (Previously Presented)   The method of claim 35, wherein the

2   selected value is the same as the particular value.

1   37. (Previously Presented)   The method of claim 35, wherein the

2   selected value lies in a selected range around the particular value

3   in feature space, but is not the same as the particular value.

1   38. (Previously Presented)   The medium of claim 35, wherein the

2   operations further comprise training an artificial intelligence

3   application using the positive and negative examples.

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1   39.(Previously Presented)   The medium of claim 38, wherein the

2   operations further comprise running the artificial intelligence

3   application to give a solution to a real external problem.

1   40.(Previously Presented)   The medium of claim 39, wherein the

2   solution is a content recommendation.

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